



via email: Lisa.Ramundo@albanycountyny.gov

June 29, 2021

Ms. Lisa M. Ramundo
Commissioner
Albany County Department of Public Works
449 New Salem Road
Voorheesville, NY 12186

RE: Project 20-C558 Design and Construction Inspection Services for CR157
Watervliet Shaker Road Phase III Highway Improvement Project
Supplemental Agreement No. 1

Ms. Ramundo,

M. J. Engineering and Land Surveying, P.C. (MJ) is submitting this Supplemental Agreement for additional work for the above referenced contract as requested by the County.

BACKGROUND

MJ was awarded the subject project in May of 2020, contract issued in August 2020 and a kickoff meeting was attended by the County and MJ on August 12, 2021 at the County DPW offices. At the kickoff meeting the County further explained the intended scope of work for this project, requesting that MJ evaluate both signal upgrades and roundabouts at the New Karner Road and Career Path intersections with Watervliet Shaker Road. MJ's scope and fee were developed based on signalized intersection upgrades only, but it was agreed at the meeting that MJ would provide a preliminary analysis to evaluate two (2) roundabouts at the two (2) intersections as a preliminary design alternative, only to provide a comparison of costs and property impacts.

A public information meeting was held on April 14, 2021, during which MJ presented the project objectives, existing conditions, and alternatives under consideration to the public. Based on traffic analysis prepared for each alternative, and comments received during the public meeting, the County requested that MJ implement design changes. Alternative 1B was selected by the County as the preferred alternative. Alternative 1B consists of new traffic signals at New Karner Road and Career Path Road with additional geometric features added to the intersection to increase the capacity/Level of Service (LOS) at the intersections. The requested design changes and coordination as a result of the design changes adopted as a result of the public information meeting and the selection of Alternative 1B include:

1. Additional geometry design, survey and mapping at two (2) intersections.
2. Re-design of the entire project corridor for a multi-use path on the south side of the road. The path was originally agreed to be designed on the north side of the road at the project kick-off meeting.
3. Update the engineers estimates to include the design revisions.
4. Preparation and coordination of Right-of-Way acquisition maps.
5. Preparation and coordination of the Right-of-Way acquisition process.

The associated Scope of Services, assumptions and fees for the additional requested work is identified herein is based on preferred Alternative No. 1B.



SCOPE OF WORK

Task 1: Preliminary Design [Alternative 1B Design and additional Survey Mapping]

1. Modify design geometry at the following intersections based on traffic analysis for increased Level of Service (LOS):
 - a. Watervliet Shaker Road / Vly Road and New Karner Road:
 - Design additional right turn lane at Vly Road
 - b. Watervliet Shaker Road / Sand Creek Road:
 - Design additional thru lane along Watervliet Shaker Road at the intersection to include a WB two (2) thru-lane configuration and taper back to one (1) lane.
 - Design an additional left turn lane from Sand Creek to Watervliet Shaker Road. Total left turn lane configuration at this location will be increased from one (1) to two (2).
2. Additional Survey and Mapping (including above and below grade utilities) at the following locations:
 - a. Watervliet Shaker Road / Vly Road and New Karner Road:
 - Additional mapping needed on Vly Road north of intersection
 - Verify ROW boundary
 - b. Watervliet Shaker Road / Sand Creek Road:
 - Additional mapping needed on Watervliet Shaker Road east of Sand Creek Road
 - Additional mapping needed on Sand Creek Road south of Watervliet Shaker Road
 - Verify ROW boundary

Assumptions:

- a. Assume three (3) field crew days to survey the additional project areas as noted above.
- b. Survey control will be re-established for the additional survey limits.
- c. One (1) revision of project base mapping will be required.

Task 2: Preliminary Design [Revised Corridor Design for Multi-Use Path Relocation]

1. Modify and assess corridor geometry and alignment to relocate multi-use path from the north side to the south side of Watervliet Shaker Road.
2. Due to the revised alignment shift required to relocate the multi-use path to the south side of Watervliet Shaker Road, and the potential high ground water table along the project corridor, geotechnical boring information is required to determine if existing soils are satisfactory to support the re-aligned roadway.
3. Analyze and revise the horizontal alignment of Watervliet Shaker Road. Modify as required to avoid right-of-way encroachments where possible.



4. Develop a revised vertical profile for Watervliet Shaker Road along the revised horizontal alignment.
5. Develop a proposed Digital Terrain Model (DTM) for the corridor and update cross sections.
6. Revise concept-level drainage and grading for the corridor.
7. Develop and assess concept-level evaluation of utility impacts and potential relocations for the corridor.

Assumptions:

- a. Soil conditions will be assessed with five (5) geotechnical borings (assumed depth of 6 ft for each boring) along the project corridor.
- b. Preparation, layout and preliminary analysis of one (1) drainage concept along the project corridor.

Task 3: Preliminary Design [Cost Estimating]

1. Prepare a revised corridor estimate to relocate the multi-use path to the south side of the road. Estimate items will be updated due to the modification in roadway horizontal alignment.
2. Update the estimate at the intersection of Watervliet Shaker Road, Vly Road and New Karner Road and Watervliet Shaker Road and Sand Creek Road due to the need for an additional lanes for increased LOS and the resulting revised geometry based on Alternative 1B.

Assumptions:

- a. Preparation and analysis of one (1) engineer's estimate for the two (2) intersections noted above.
- b. Preparation and analysis of one (1) engineer's estimate along the project corridor.

Task 4: Final Design [Preparation of Right-of-Way Maps]

1. Finalize proposed right-of-way (ROW) take lines based on the roadway design. Provide the ROW take lines to the County for review.
2. Attend one (1) take line review meeting with the County.
3. Prepare FEE acquisition ROW maps for each impacted property to depict the type of taking, size and property owner information.

Assumptions:

- a. Prepare a total of up to two (2) FEE acquisition maps.
 - One (1) map at the intersection of Watervliet Shaker Road, Vly Road and New Karner Road.
 - One (1) map at the intersection of Watervliet Shaker Road and Sand Creek Road.

Task 5: Final Design, Right-of-Way Acquisition Process

1. MJ will coordinate with ROW subconsultant, and County as needed to facilitate the ROW acquisition process.



2. ROW Sub-consultant Tasks:

- a. Obtain abstracts of title and secure appraisals.
- b. Perform appraisal review and establish an amount representing just compensation.
- c. Perform ROW acquisition work, including negotiations with property owners, acquisition of properties and accompanying legal work and actions necessary to secure title to, possession of and entry to properties.

Assumptions:

- a. Assume two (2) properties will require permanent FEE acquisitions.
- b. Albany County will provide the cost of just compensation to the property owners.
- c. Eminent Domain Procedure Law process will be followed.

SCHEDULE

MJ is prepared to begin this work immediately upon receiving authorization from the County.

FEE

MJ proposes to complete the above-listed work for the following **Lump Sum Fee**. Additional work, if requested that is not specified in or arising out of this proposal will be completed under a separate agreement.

| Task | Description for Alternative No. 3 | Cost |
|-----------------------------|--|--------------------|
| 1 | Preliminary Design [Alternative 1B Design and additional Survey Mapping] | \$10,800.00 |
| 2 | Preliminary Design [Revised Corridor Design for Multi-Use Path Relocation] (includes geotechnical borings sub-consultant) | \$15,300.00 |
| 3 | Preliminary Design, Cost Estimating | \$8,100.00 |
| 4 | Final Design, Right-of-Way Maps | \$6,300.00 |
| 5 | Final Design, Right-of-Way Acquisition Process (includes ROW sub-consultant) | \$16,200.00 |
| Total Lump Sum Cost: | | \$56,700.00 |

The estimated fee assumes no significant changes resulting from decisions, conditions and/or events beyond MJ's control. We look forward to the continued opportunities with the County. If you have any questions regarding this proposal, please contact us at (518) 371-0799.

Sincerely,

Michael D. Panichelli, P.E.
President